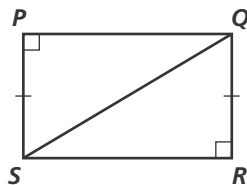
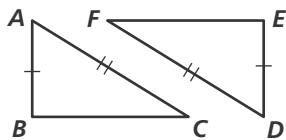


# Practice 4-6

## Congruence in Right Triangles

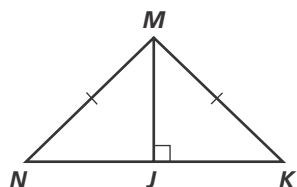
Write a two-column proof.

1. Given:  $\overline{AB} \perp \overline{BC}$ ,  $\overline{ED} \perp \overline{FE}$ ,  $\overline{AB} \cong \overline{ED}$ ,  $\overline{AC} \cong \overline{FD}$  2. Given:  $\angle P$  and  $\angle R$  are right angles,  $\overline{PS} \cong \overline{QR}$   
 Prove:  $\triangle ABC \cong \triangle DEF$  Prove:  $\triangle PQS \cong \triangle RSQ$

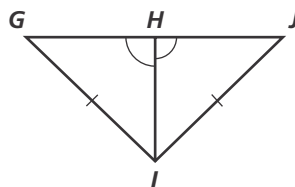


Write a flow proof.

3. Given:  $\overline{MJ} \perp \overline{NK}$ ,  $\overline{MN} \cong \overline{MK}$   
 Prove:  $\triangle MJN \cong \triangle MKJ$



4. Given:  $\overline{GI} \cong \overline{JI}$ ,  $\angle GHI \cong \angle JHI$   
 Prove:  $\triangle IHG \cong \triangle IJH$



What additional information do you need to prove each pair of triangles congruent by the HL Theorem?

